SEQUENCE LISTING

<110> Wastfelt, Maria K. Boden
Flock, Jan-Ingmar

<120> Fibrinogen Binding Protein

<130> 012889-086

<140> US 09/938,497
<141> 2001-08-27

<150> US 09/276,141
<151> 1999-03-25

<150> PCT/SE93/00759
<151> 1993-09-20

<150> SE 9302955-01
<151> 1993-09-13

<150> SE 9202720-0
<151> 1992-09-21

<160> 17

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Lys Tyr Gly Thr
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<210> 2
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<213> Staphylococcus aureus

<400> 2
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1 5 10 15
Lys Lys Gly Ala
20

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<211> 20
<212> PRT
<213> Staphylococcus aureus

<400> 3

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1 5 10 15
Lys Asn Gly Thr
20

<210> 4
<211> 20
<212> PRT
<213> Staphylococcus aureus

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1 5 10 15
Lys Asn Gly Thr
20

<210> 5
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<212> PRT
<213> Staphylococcus aureus

<400> 5
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1 5 10 15
Asn Ile Val Glu
20

<210> 6
<211> 8
<212> PRT
<213> Staphylococcus aureus

<400> 6
Met Tyr Pro Glu Lys Lys Pro Val
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<210> 7
<211> 408
<212> DNA
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<220>
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gagcgaagga tacggtccaa gagaaaagaa accagtgagt attaatcaca atatcgtaga 60
gtacaatgat ggtactttta aatatcaatc tagaccaaaa tttaactcaa cacctaaata 120
tattaaattc aaacatgact ataatatttt agaatttaac gatggtacat tcgaatatgg 180
tgcacgtcca caatttaata aaccagcagc gaaaactgat gcaactatta aaaaagaaca 240
aaaattgatt caagctcaaa atcttgtgag agaatttgaa aaaacacata ctgtcagtgc 300
acacagaaaa gcacaaaagg cagtcaactt agtttcgttt gaatacaaag tgaagaaaat 360
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<210> 8
<211> 136

<212> PRT
<213> Artificial Sequence

<220>
<223> fibrinogen-binding protein

<400> 8
Asp Glu Gly Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His
 1   5   10   15
Asn Ile Val Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro
            20   25   30
Lys Phe Asn Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn
        35   40   45
Ile Leu Glu Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln
    50   55   60
Phe Asn Lys Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln
65   70   75   80
Lys Leu Ile Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His
                85   90   95
Thr Val Ser Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser
            100   105   110
Phe Glu Tyr Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn
        115   120   125
Val Leu Lys Gln Gly Leu Val Arg
    130   135

<210> 9
<211> 1009
<212> DNA
<213> Artificial Sequence

<220>
<223> fib protein

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aagtgtttat agttaattaa taattagtta atttcaaaag ttgtataaat aggataactt 120
aataaatgta agataataat ttggaggata attaac atg aaa aat aaa ttg ata   174
                                        Met Lys Asn Lys Leu Ile
                                         1   5

gca aaa tct tta tta aca ata gcg gca att ggt att act aca act aca   222
Ala Lys Ser Leu Leu Thr Ile Ala Ala Ile Gly Ile Thr Thr Thr Thr
            10   15   20

att gcg tca aca gca gat gcg agc gaa gga tac ggt cca aga gaa aag   270
Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly Tyr Gly Pro Arg Glu Lys
        25   30   35

aaa cca gtg agt att aat cac aat atc gta gag tac aat gat ggt act   318
Lys Pro Val Ser Ile Asn His Asn Ile Val Glu Tyr Asn Asp Gly Thr
    40   45   50

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ttt aaa tat caa tct aga cca aaa ttt aac tca aca cct aaa tat att   366
Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn Ser Thr Pro Lys Tyr Ile
 55                  60                  65                  70

aaa ttc aaa cat gac tat aat att tta gaa ttt aac gat ggt aca ttc   414
Lys Phe Lys His Asp Tyr Asn Ile Leu Glu Phe Asn Asp Gly Thr Phe
                 75                  80                  85

gaa tat ggt gca cgt cca caa ttt aat aaa cca gca gcg aaa act gat   462
Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys Pro Ala Ala Lys Thr Asp
            90                  95                 100

gca act att aaa aaa gaa caa aaa ttg att caa gct caa aat ctt gtg   510
Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile Gln Ala Gln Asn Leu Val
        105                 110                 115

aga gaa ttt gaa aaa aca cat act gtc agt gca cac aga aaa gca caa   558
Arg Glu Phe Glu Lys Thr His Thr Val Ser Ala His Arg Lys Ala Gln
    120                 125                 130

aag gca gtc aac tta gtt tcg ttt gaa tac aaa gtg aag aaa atg gtc   606
Lys Ala Val Asn Leu Val Ser Phe Glu Tyr Lys Val Lys Lys Met Val
135                 140                 145                 150

tta caa gag cga att gat aat gta tta aaa caa gga tta gtg aga taa   654
Leu Gln Glu Arg Ile Asp Asn Val Leu Lys Gln Gly Leu Val Arg  *
                155                 160                 165

tacttctgtc attattttaa gttcaaaata atttaatatt atattatttt ttattaataa 714
aacgactatg ctatttaatg ccaggttaat gtaactttcc taaaattgac tatataatcg 774
ttaagtatca attttaagga gagtttaca atg aaa ttt aaa aaa tat ata tta   827
                                Met Lys Phe Lys Lys Tyr Ile Leu
                                                170

aca gga aca tta gca tta ctt tta tca tca act ggg ata gca act ata   875
Thr Gly Thr Leu Ala Leu Leu Leu Ser Ser Thr Gly Ile Ala Thr Ile
    175                 180                 185

gaa ggg aat aaa gca gat gca agt agt ctg gac aaa tat tta act gaa   923
Glu Gly Asn Lys Ala Asp Ala Ser Ser Leu Asp Lys Tyr Leu Thr Glu
190                 195                 200                 205

agt cag ttt cat gat aaa cgc ata gca gaa gaa tta aga act tta ctt   971
Ser Gln Phe His Asp Lys Arg Ile Ala Glu Glu Leu Arg Thr Leu Leu
                210                 215                 220

aac aaa tcg aat gta tat gca tta gct gca gga agc tt               1009
Asn Lys Ser Asn Val Tyr Ala Leu Ala Ala Gly Ser
            225                 230
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<210> 10
<211> 165
<212> PRT
<213> Artificial Sequence

<220>
<223> fib protein

<400> 10
Met Lys Asn Lys Leu Ile Ala Lys Ser Leu Leu Thr Ile Ala Ala Ile
 1   5   10   15
Gly Ile Thr Thr Thr Thr Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly
            20   25   30
Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His Asn Ile Val
        35   40   45
Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn
    50   55   60
Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn Ile Leu Glu
65   70   75   80
Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys
                85   90   95
Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile
            100   105   110
Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His Thr Val Ser
        115   120   125
Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser Phe Glu Tyr
    130   135   140
Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn Val Leu Lys
145   150   155   160
Gln Gly Leu Val Arg
                165

<210> 11
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> fib protein

<400> 11
Met Lys Phe Lys Lys Tyr Ile Leu Thr Gly Thr Leu Ala Leu Leu Leu
 1   5   10   15
Ser Ser Thr Gly Ile Ala Thr Ile Glu Gly Asn Lys Ala Asp Ala Ser
            20   25   30
Ser Leu Asp Lys Tyr Leu Thr Glu Ser Gln Phe His Asp Lys Arg Ile
        35   40   45
Ala Glu Glu Leu Arg Thr Leu Leu Asn Lys Ser Asn Val Tyr Ala Leu
    50   55   60
Ala Ala Gly Ser
65

<210> 12
<211> 781
<212> DNA
<213> Artificial Sequence

<220>
<223> fib gene from strain FDA 486

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tttcaaaagt tgtataaata ggataactta ataaatgtaa gataataatt tggaggataa 120
ttaacatgaa aaataaattg atagcaaaat ctttattaac aatagcggca attggtatta 180
ctacaactac aattgcgtca acagcagatg cgagcgaagg atacggtcca agagaaaaga 240

aaccagtgag tattaatcac aatatcgtag agtacaatga tggtactttt aaatatcaat 300
ctagaccaaa atttaactca acacctaaat atattaaatt caaacatgac tataatattt 360
tagaatttaa cgatggtaca ttcgaatatg gtgcacgtcc acaatttaat aaaccagcag 420
cgaaaactga tgcaactatt aaaaaagaac aaaaattgat tcaagctcaa aatcttgtga 480
gagaatttga aaaaacacat actgtcagtg cacacagaaa agcacaaaag gcagtcaact 540
tagtttcgtt tgaatacaaa gtgaagaaaa tggtcttaca agagcgaatt gataatgtat 600
taaaacaagg attagtgaga taatacttct gtcattattt taagttcaaa ataatttaat 660
attatattat tttttattaa taaaacgact atgctattta atgccaggtt aatgtaactt 720
tcctaaaatt gactatataa tcgttaagta tcaattttaa ggagagttta caatgaaatt 780
t 781

<210> 13
<211> 785
<212> DNA
<213> Artificial Sequence

<220>
<223> fib gene from strain Newman

<400> 13
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tttcaaaagt tgtataaata ggataactta ataaatgtaa gataataatt tggaggataa 120
ttgacatgaa aaatgcattg atagcaaaat ctttattaac attagcggca ataggtatta 180
ctacaactac aattgcgtca acagcagatg cgagcgaagg atacggtcca agagaaaaga 240
aaccagtgag tattaatcac aatatcgtag agtacaatga tggtactttt aaatatcaat 300
ctagaccaaa atttaactca acacctaaat atattaaatt caaacatgac tataatattt 360
tagaatttaa cgatggtaca ttcgaatatg gtgcacgtcc acaatttaat aaaccagcag 420
cgaaaactga tgcaactatt aaaaaagaac aaaaattgat tcaagctcaa aatcttgtga 480
gagaatttga aaaaacacat actgtcagtg cacacagaaa agcacaaaag gcagtcaact 540
tagtttcgtt tgaatacaaa gtgaagaaaa tggtcttaca agagcgaatt gataatgtat 600
taaaacaagg attagttaaa taaaacttca atcgttgctg ttatctggaa ataattaatt 660
aaatgttatg ttaatttttg ttaatgaaaa aagtaatcta tttaatgaca ggttaatgta 720
attgtcctga aattgactat atactcagta agtatcaatt ttaaggagag cttataatga 780
aattt 785

<210> 14
<211> 165
<212> PRT
<213> Artificial Sequence

<220>
<223> fib gene from strain 486

<400> 14
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Gly Ile Thr Thr Thr Thr Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly
            20   25   30
Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His Asn Ile Val
        35   40   45
Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn
    50   55   60
Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn Ile Leu Glu
65   70   75   80
Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys
                85   90   95
Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile
            100   105   110
Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His Thr Val Ser

```
        115                 120                 125
Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser Phe Glu Tyr
    130                 135                 140
Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn Val Leu Lys
145                 150                 155                 160
Gln Gly Leu Val Arg
                165
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<210> 15
<211> 165
<212> PRT
<213> Artificial Sequence

<220>
<223> fib gene from strain Newman

<400> 15

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Gly Ile Thr Thr Thr Thr Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly
            20                  25                  30
Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His Asn Ile Val
        35                  40                  45
Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn
    50                  55                  60
Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn Ile Leu Glu
65                  70                  75                  80
Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys
                85                  90                  95
Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln Lys Leu Ile
            100                 105                 110
Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His Thr Val Ser
        115                 120                 125
Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser Phe Glu Tyr
    130                 135                 140
Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn Val Leu Lys
145                 150                 155                 160
Gln Gly Leu Val Lys
                165
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<210> 16
<211> 136
<212> PRT
<213> Artificial Sequence

<220>
<223> fib gene from strain Newman

<400> 16

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 1               5                  10                  15
Asn Ile Val Glu Tyr Asn Asp Gly Ser Phe Lys Tyr Gln Ser Arg Pro
            20                  25                  30
Lys Phe Asn Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn
        35                  40                  45
Ile Leu Glu Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln
    50                  55                  60
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Phe Asn Lys Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln
65                  70                  75                  80
Lys Leu Ile Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His
                85                  90                  95
Thr Val Ser Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser
            100                 105                 110
Phe Glu Tyr Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn
        115                 120                 125
Val Leu Lys Gln Gly Leu Val Arg
    130                 135
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<210> 17
<211> 177
<212> PRT
<213> Artificial Sequence

<220>
<223> coagulase from strain Staphylococcus aureus

<400> 17

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Val Lys Tyr Arg Asp Ala Gly Thr Gly Ile Arg Glu Tyr Asn Asp Gly
            20                  25                  30
Thr Phe Gly Tyr Glu Ala Arg Pro Arg Phe Asn Lys Pro Ser Glu Thr
        35                  40                  45
Asn Ala Tyr Asn Val Thr Thr His Ala Asn Gly Gln Val Ser Tyr Gly
    50                  55                  60
Ala Arg Pro Thr Tyr Lys Lys Pro Ser Glu Thr Asn Ala Tyr Asn Val
65                  70                  75                  80
Thr Thr His Ala Asn Gly Gln Val Ser Tyr Gly Ala Arg Pro Thr Gln
                85                  90                  95
Asn Lys Pro Ser Lys Thr Asn Ala Tyr Asn Val Thr Thr His Gly Asn
            100                 105                 110
Gly Gln Val Ser Tyr Gly Ala Arg Gln Ala Gln Asn Lys Pro Ser Lys
        115                 120                 125
Thr Asn Ala Tyr Asn Val Thr Thr His Ala Asn Gly Gln Val Ser Tyr
    130                 135                 140
Gly Ala Arg Pro Thr Tyr Lys Lys Pro Ser Lys Thr Asn Ala Tyr Asn
145                 150                 155                 160
Val Thr Thr His Ala Asp Gly Thr Ala Thr Tyr Gly Pro Arg Val Thr
                165                 170                 175
Lys
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